

The hybrid solar inverter intelligently prioritizes solar energy for primary usage, draws from battery storage when solar input is insufficient, and uses grid power only when necessary. By efficiently managing power from solar panels, batteries, and the utility grid, it delivers a flexible, reliable, and energy-efficient solution—perfectly suited for industrial, telecom, and commercial facilities with three-phase power requirements, supporting high-load equipment such as machinery and critical infrastructure.



General Features

- Smart LCD setting (Working modes, Charge Current, Charge Voltage, etc).
- Built in MPPT 40A/60A solar charge controller
- Combining solar system, AC utility, and battery power source to supply continuous power
- Overload, short circuit and Deep discharge protection
- Cold start function
- Support USB, RS485, CAN monitoring function
- WIFI remote monitoring (optional)
- Compatible to generator
- PV/ AC activation function
- Smart battery pack BMS communication function (CAN Port)

SPECIFICATIONS

MODEL	NPS-08483PH65	NPS-10483PH65	NPS-12483PH65	
Rated Power	8000W	10000W	12000W	
AC Input data	Max AC Input Power	8800W	11000W	13200W
	AC Input Rated Current	12.1A	15.2A	18.2A
	Max. Three-phase Unbalanced Input Current	18.2A	22.7A	27.3A
	Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
	Rated Input Voltage	220/380,230/400Vac		
	Rated Input Grid Frequency/Range	50/60;45~55/55-65		
	Grid Type	Three Phase		
	Total Harmonics Current Distortion (THDi)	<3% (of nominal power)		
AC Output data	Max AC Output Power	8800W	11000W	13200W
	AC Output Rated Current	11.6A	14.5A	17.4A
	Max. Three-phase Unbalanced Output Current	17.4A	21.7A	26.1A
	Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
	Rated Output Voltage	220/380,230/400Vac		
	Rated Output Grid Frequency/Range	50/60;45~55/55-65		
	Grid Type	Three Phase		
	Total Harmonics Current Distortion (THDi)	<3% (of nominal power)		
PV string Input	DC Current Injection	<0.5% In		
	Max. DC Input Power	10400W	13000W	15600W
	Rated PV Input Voltage	550V		
	Maximum DC voltage	800V		
	Start-up Voltage	160V		
	Minimum voltage for grid connection	310V		
	Full Load DC Voltage Range	350-650V		
	Enter high voltage error recovery point	800V		
	MPPT voltage range	200~650V		
	Maximum input current	15A/15A	30A/15A	
	No.of MPP Trackers	2		
No.of Strings per MPP Tracker	1+1	2+1		

SPECIFICATIONS

MODEL		NPS-08483PH65	NPS-10483PH65	NPS-12483PH65
Battery	Battery type	Lead-acid battery / Lithium battery		
	Battery voltage	48V		
	Battery voltage range	40~60V		
	Charging curve	3-stage adaptive with maintenance/Equalization		
	Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
	Over-current protection/ Over-temperature protection	Yes / Yes		
	Maximum charging/discharging power	8000W	10000W	12000W
	Maximum charging/discharging current	190A	210A	240A
Efficiency	Max. Efficiency	97.6%		
	Euro Efficiency	97%		
Protection	Integrated	Islanding protection, PV input polarity reverse protection, insulationresistance detection, surge protection, leakage current monitoringprotection,output current protection, output short circuit protectionoutput overvoltage protection		
Protection	IP rating	IP66		
	Surge Protection	DC Type III/AC Type III		
	Overvoltage Category	DC Type II/AC Type III		
Physical features	Dimension (W*H*D) (mm)	446*692*260 (excluding connectors and racks)		
	Net Weight (kg)	38		
System specification	Communication with BMS	RS485/CAN		
	Operating Temperature Range (°C)	25°C to +60°C, >45°C Derating		
	Cooling	Fan cooling		
	Noise	≤55dB		
	Installation Style	Wall-mounted		
	Certification and Standad	CE-EMC+LVD (EN6100-6-3, EN6100-6-1+EN IEC 62109-1, EN IEC 62109-2); CE-LVD(EN 62477-1) ; IEC 60529; EN50549-1; Poland Type A, (NC RfG:2016, PSE:2018, PTPIREE:2021)C10/C11; UNE217001-2020; UNE217002-2020, NTS-631 (Type A); G98+G99		

*Product specifications and appearance ae subject to change without further notice.

ORDERING INFORMATION

Part Number	Description
NPS-08483PH65	8kW Hybrid 3Phase Solar Inverter IP65 Rating
NPS-10483PH65	10kW Hybrid 3Phase Solar Inverter IP65 Rating
NPS-12483PH65	12kW Hybrid 3Phase Solar Inverter IP65 Rating

